

532,615

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



25 APR 2005

(43) International Publication Date  
6 May 2004 (06.05.2004)

PCT



(10) International Publication Number  
WO 2004/038827 A2

- (51) International Patent Classification<sup>7</sup>: H01M (74) Agent: CRISPINO, Ralph; InventQjaya Sdn. Bhd., c/o Reveo Inc., 85 Executive Blvd., Elmsford, NY 10523 (US).
- (21) International Application Number: PCT/US2003/033810 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 23 October 2003 (23.10.2003)
- (25) Filing Language: English (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (26) Publication Language: English
- (30) Priority Data: 60/420,542 23 October 2002 (23.10.2002) US
- (71) Applicant (*for all designated States except US*): INVENTQJAYA SDN. BHD. [MY/MY]; Level 7, Setia 1, 15, Lorong Dungun, Damansara Heights, 50490, Kuala Lumpur (MY).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): MORRIS, William, F. [US/US]; 2108 Central Park Avenue, Yonkers, NY 10710 (US). SOLORZANO, Julio, G. [US/US]; 2409 Mica Mine lane, Wake Forest, NC 27587 (US).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/038827 A2

(54) Title: LIQUID SEAL AND ELECTRICAL CONNECTION STRUCTURE

(57) Abstract: A metal air cell system is provided, generally wherein a common structure is used to electrically connect anodes and cathodes, and provide a sealed structure preventing liquid electrolyte leakage. A mechanism is provided which provides a downward force on an anode holder, pressing it onto a top plate of a base unit or cathode module. This downward force serves two purposes. First, a pressure is provided for a facial seal between the anode holder and the cathode module. This seal contains the electrolyte in the cathode module. Further, the interconnections are designed in such a way that allows this same downward force to provide a low resistance connection between anodes and cathodes.